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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,124	07/12/2006	Christian Pays	21.1197	6473
23718 7590 10/23/2007 SCHLUMBERGER OILFIELD SERVICES			EXAMINER	
200 GILLINGHAM LANE			UPTON, CHRISTOPHER	
MD 200-9 SUGAR LAND, TX 77478		ART UNIT	PAPER NUMBER	
		1797		
			MAIL DATE	DELIVERY MODE
			10/23/2007	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Comments	10/597,124	PAYS ET AL.
Office Action Summary	Examiner	Art Unit
<u> </u>	Christopher Upton	1797
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ice except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 7-9 is/are rejected. 7) Claim(s) 5 and 6 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection to the construction and applicant may not request that any objection and applicant may not re	election requirement. The control of the drawing(s) is objected if the drawing(s	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☑ Acknowledgment is made of a claim for foreign a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☑ Copies of the certified copies of the priorical application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for

all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-4, 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over German publication 296 16 832 or Kunz, each in view of Frumm, UK patent 1,418,806 or PCT publication WO 02/20115.

Kunz and the German publication each disclose an oil/water separator having a coalescer followed by a guiding means for the separated droplets which allows the water to flow through, substantially as claimed. The instant claims differ in recitation of the coalescer being a reusable polymer absorbent material instead of the metal turnings of Kunz or the unspecified material of the German reference. It is well known to use a polymer absorbent material, such as a foam, as a coalescer, as exemplified by Frumm, the British patent and the PCT publication. It would therefore have been obvious for one skilled in the art to use such a polymer absorbent as a coalescer in the devices of Kunz and the German publication, as a substitution of one known suitable material for another. With respect to claim 3, it is submitted that the distance would have been an obvious matter of optimization for one skilled in the art, depending on the characteristics of the oil, the flow rate, and other considerations, and therefore fails to patentably distinguish over the prior art.

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3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the references as applied to claim 7 above, and further in view of Kingsbury or Lawson.

Claim 8 differs from claim 7 in recitation of repeating the steps. It is well known to provide plural serial separation stages in a coalescing separator, as exemplified by Kingsbury and Lawson. It would therefore have been obvious for one skilled in the art to adapt the device of claim 7 to use plural stages, depending on the desired final quality, the characteristics of the oil, and other factors.

4. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The recitation of a separator having plural absorbent polymer coalescing elements, each followed by a guide means for the drops of separated material that allows the continuous phase to flow through, wherein each coalescer element has an upstream weir to prevent the drops formed by a previous coalescing element from flowing through it patentably distinguishes over the prior art of record.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Other references of interest include McCann, Pelton, Castelli and Batutis.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Upton whose telephone number is

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571-272-1169. The examiner can normally be reached on 8:30-6:00, off every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher Upton Primary Examiner Art Unit 1797